Fernando FernÃ¡ndez-LÃ¡zaro

List of Publications by Year
in descending order

87 papers	3,029 citations	159585 30 h-index	168389 53 g-index
92 all docs	92 docs citations	92 times ranked	3593 citing authors

#	Article	IF	Citations
1	Induction of Strong and Tunable Circularly Polarized Luminescence of Nonchiral, Nonmetal, Lowâ€Molecularâ€Weight Fluorophores Using Chiral Nanotemplates. Angewandte Chemie - International Edition, 2017, 56, 2989-2993.	13.8	205
2	Gemini surfactants, the effect of hydrophobic chain length and dissymmetry. Chemical Communications, 1997, , 2105-2106.	4.1	181
3	Perylenediimides as non-fullerene acceptors in bulk-heterojunction solar cells (BHJSCs). Journal of Materials Chemistry A, 2016, 4, 9336-9346.	10.3	172
4	Double helical silica fibrils by solâ€“gel transcription of chiral aggregates of gemini surfactantsElectronic supplementary information (ESI) available: Fig. S1: TEM image of double stranded silica obtained by solâ€“gel transcription of l-1/d-1 gel (2âˆ¶1 mol/mol, 33% ee l-1 excess). See http://www.rsc.org/suppdata/cc/b2/b202799m/. Chemical Communications, 2002, , 1212-1213.	4.1	130
5	Individualized Silica Nanohelices and Nanotubes: Tuning Inorganic Nanostructures Using Lipidic Self-Assemblies. Nano Letters, 2008, 8, 1929-1935.	9.1	113
6	Advances in phthalocyanine-sensitized solar cells (PcSSCs). Journal of Materials Chemistry A, 2014, 2, 15672-15682.	10.3	113
7	Molecular Structure of Self-Assembled Chiral Nanoribbons and Nanotubules Revealed in the Hydrated State. Journal of the American Chemical Society, 2008, 130, 14705-14712.	13.7	108
8	GoldHelix: Gold Nanoparticles Forming 3D Helical Superstructures with Controlled Morphology and Strong Chiroptical Property. ACS Nano, 2017, 11, 3806-3818.	14.6	108
9	Efficient deep-red light-emitting electrochemical cells based on a perylenediimide-iridium-complex dyad. Chemical Communications, 2009, , 3886.	4.1	103
10	Formation of a long-lived charge-separated state of a zinc phthalocyanine-perylenediimide dyad by complexation with magnesium ion. Chemical Communications, 2005, , 3814.	4.1	93
11	Control of Photoinduced Electron Transfer in Zinc Phthalocyanineâˆ'Perylenediimide Dyad and Triad by the Magnesium Ion. Journal of Physical Chemistry A, 2008, 112, 10744-10752.	2.5	86
12	Synthesis and Photophysical Studies of a New Nonaggregated C60âˆ'Silicon Phthalocyanineâˆ'C60Triad. Organic Letters, 2007, 9, 3441-3444.	4.6	69
13	Optically Active Perovskite CsPbBr₃ Nanocrystals Helically Arranged on Inorganic Silica Nanohelices. Nano Letters, 2020, 20, 8453-8460.	9.1	68
14	Synthesis and Photoinduced Electron Transfer of Phthalocyanineâˆ'Perylenebisimide Pentameric Arrays. Journal of Organic Chemistry, 2009, 74, 5871-5880.	3.2	60
15	A water-soluble perylene dye functionalised with a 17Î²-estradiol: a new fluorescent tool for steroid hormones. Chemical Communications, 2011, 47, 8307.	4.1	58
16	1,7â€Bayâ€Substituted Perylenediimide Derivative with Outstanding Laser Performance. Advanced Optical Materials, 2013, 1, 933-938.	7.3	58
17	Rational design of a phthalocyanineâ€“perylenediimide dyad with a long-lived charge-separated state. Chemical Communications, 2012, 48, 6241.	4.1	56
18	Submillisecond-lived photoinduced charge separation in a fully conjugated phthalocyanineâ€“perylenebenzimidazole dyad. Chemical Science, 2014, 5, 4785-4793.	7.4	54

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19	Fluorescence emission originated from the H-aggregated cyanine dye with chiral gemini surfactant assemblies having a narrow absorption band and a remarkably large Stokes shift. Chemical Communications, 2017, 53, 8870-8873.	4.1	53
20	Induction of Strong and Tunable Circularly Polarized Luminescence of Nonchiral, Nonmetal, Lowâ€Molecularâ€Weight Fluorophores Using Chiral Nanotemplates. Angewandte Chemie, 2017, 129, 3035-3039.	2.0	52
21	Excitedâ€State Charge Transfer in Covalently Functionalized MoS₂ with a Zinc Phthalocyanine Donorâ€“Acceptor Hybrid. Angewandte Chemie - International Edition, 2019, 58, 5712-5717.	13.8	52
22	Direct Observation of Siloxane Chirality on Twisted and Helical Nanometric Amorphous Silica. Nano Letters, 2016, 16, 6411-6415.	9.1	49
23	Chiral Colloids: Homogeneous Suspension of Individualized SiO₂ Helical and Twisted Nanoribbons. ACS Nano, 2014, 8, 6863-6872.	14.6	47
24	Interfacial photo-induced charge transfer reactions in perylene imide dye sensitised solar cells. Journal of Materials Chemistry, 2008, 18, 5802.	6.7	42
25	Light harvesting zinc naphthalocyanineâ€“perylenediimide supramolecular dyads: long-lived charge-separated states in nonpolar media. Physical Chemistry Chemical Physics, 2012, 14, 3612.	2.8	38
26	Adiabatic Photoinduced Electron Transfer and Back Electron Transfer in a Series of Axially Substituted Silicon Phthalocyanine Triads. Journal of Physical Chemistry C, 2008, 112, 17694-17701.	3.1	35
27	Supramolecular interactions in dye-sensitised solar cells. Journal of Materials Chemistry, 2009, 19, 5818.	6.7	32
28	A structureâ€“propertyâ€“performance investigation of perylenediimides as electron accepting materials in organic solar cells. Physical Chemistry Chemical Physics, 2013, 15, 18894.	2.8	32
29	Synthesis and Photophysics of Silicon Phthalocyanineâ€“Perylenebisimide Triads Connected through Rigid and Flexible Bridges. Chemistry - A European Journal, 2011, 17, 9153-9163.	3.3	31
30	Does a nitrogen matter? Synthesis and photoinduced electron transfer of perylenediimide donors covalently linked to C₅₉N and C₆₀ acceptors. Nanoscale, 2015, 7, 7437-7444.	5.6	30
31	Synergistic Interaction of Dyes and Semiconductor Quantum Dots for Advanced Cascade Cosensitized Solar Cells. Advanced Functional Materials, 2015, 25, 3220-3226.	14.9	28
32	Solventâ€Free Offâ€“On Detection of the Improvised Explosive Triacetone Triperoxide (TATP) with Fluorogenic Materials. Chemistry - A European Journal, 2017, 23, 13973-13979.	3.3	28
33	Supramolecular Zinc Phthalocyanineâ€“Imidazolyl Perylenediimide Dyad and Triad: Synthesis, Complexation, and Photophysical Studies. Chemistry - an Asian Journal, 2011, 6, 3110-3121.	3.3	27
34	Multichromophoric Perylenediimideâ€“Silicon Phthalocyanineâ€“C₆₀ System as an Artificial Photosynthetic Analogue. Chemistry - A European Journal, 2017, 23, 3863-3874.	3.3	26
35	Multistep electron transfer systems based on silicon phthalocyanine, [60]fullerene and trinitrofluorenone. Chemical Communications, 2010, 46, 3944.	4.1	24
36	Facile and Versatile Approach for Generating Circularly Polarized Luminescence by Non-chiral, Low-molecular Dye-on-nanotemplate Composite System. Chemistry Letters, 2016, 45, 448-450.	1.3	24

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37	Efficient Optical Amplification in a Sandwich-Type Active-Passive Polymer Waveguide Containing Perylenediimides. ACS Photonics, 2017, 4, 114-120.	6.6	24
38	Influence of Blending Ratio and Polymer Matrix on the Lasing Properties of Perylenediimide Dyes. Journal of Physical Chemistry C, 2018, 122, 24896-24906.	3.1	23
39	Perylenediimides as more than just non-fullerene acceptors: versatile components in organic, hybrid and perovskite solar cells. Chemical Communications, 2020, 56, 3824-3838.	4.1	23
40	Memorized chiral arrangement of gemini surfactant assemblies in nanometric hybrid organicâ€“silica helices. Chemical Communications, 2016, 52, 5800-5803.	4.1	21
41	Effect of structural modifications in the laser properties of polymer films doped with perylenebisimide derivatives. Synthetic Metals, 2009, 159, 2293-2295.	3.9	20
42	Induced circular dichroism of monoatomic anions: silica-assisted the transfer of chiral environment from molecular assembled nanohelices to halide ions. Chemical Communications, 2018, 54, 10244-10247.	4.1	20
43	Interface engineering in efficient vacuum deposited perovskite solar cells. Organic Electronics, 2016, 37, 396-401.	2.6	19
44	Supramolecular complex of a fused zinc phthalocyanineâ€“zinc porphyrin dyad assembled by two imidazole-C₆₀units: ultrafast photoevents. Physical Chemistry Chemical Physics, 2018, 20, 7798-7807.	2.8	19
45	Excitedâ€State Charge Transfer in Covalently Functionalized MoS₂ with a Zinc Phthalocyanine Donorâ€“Acceptor Hybrid. Angewandte Chemie, 2019, 131, 5768-5773.	2.0	19
46	Optically Active Polyoxometalateâ€Based Silica Nanohelices: Induced Chirality from Inorganic Nanohelices to Achiral POM Clusters. Chemistry - A European Journal, 2018, 24, 11344-11353.	3.3	18
47	Perylene-Monoimides: Singlet Fission Down-Conversion Competes with Up-Conversion by Geminate Tripletâ€“Triplet Recombination. Journal of Physical Chemistry A, 2020, 124, 5727-5736.	2.5	17
48	Unveiling the Photoinduced Electronâ€Donating Character of MoS₂ in Covalently Linked Hybrids Featuring Perylenediimide. Angewandte Chemie - International Edition, 2021, 60, 9120-9126.	13.8	16
49	Axially Substituted Silicon Phthalocyanine as Electron Donor in a Dyad and Triad with Azafullerene as Electron Acceptor for Photoinduced Charge Separation. Chemistry - A European Journal, 2016, 22, 15137-15143.	3.3	15
50	Charge separation and charge recombination photophysical studies in a series of peryleneâ€“C₆₀linear and cyclic dyads. Physical Chemistry Chemical Physics, 2016, 18, 3598-3605.	2.8	15
51	Fluoride-mediated alkoxylation and alkylthio-functionalization of halogenated perylenediimides. Organic Chemistry Frontiers, 2017, 4, 2016-2021.	4.5	15
52	Water soluble fluorescent-magnetic perylenediimide-containing maghemite-nanoparticles for bimodal MRI/OI imaging. Journal of Inorganic Biochemistry, 2012, 117, 205-211.	3.5	13
53	Supramolecular Induction of Topological Chirality from Nanoscale Helical Silica Scaffolds to Achiral Molecular Chromophores. Journal of Physical Chemistry C, 2020, 124, 23839-23843.	3.1	13
54	Creation of a polymer backbone in lipid bilayer membrane-based nanotubes for morphological and microenvironmental stabilization. RSC Advances, 2014, 4, 33194-33197.	3.6	12

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55	Phthalocyanineâ€“Gold Nanoparticle Hybrids: Modulating Quenching with a Silica Matrix Shell.. ChemPhysChem, 2016, 17, 1579-1585.	2.1	12
56	Chirality induction on non-chiral dye-linked polysilsesquioxane in nanohelical structures. Chemical Communications, 2020, 56, 7241-7244.	4.1	12
57	Synthesis and Photophysical Properties of Conjugated and Nonconjugated Phthalocyanineâ€“Perylenediimide Systems. Journal of Physical Chemistry C, 2016, 120, 26508-26513.	3.1	11
58	Sequential, Ultrafast Energy Transfer and Electron Transfer in a Fused Zinc Phthalocyanineâ€freeâ€base Porphyrinâ€C₆₀ Supramolecular Triad. ChemPhysChem, 2019, 20, 163-172.	2.1	11
59	Distance Matters: Effect of the Spacer Length on the Photophysical Properties of Multimodular Perylenediimideâ€“Silicon Phthalocyanineâ€“Fullerene Triads. Chemistry - A European Journal, 2020, 26, 4822-4832.	3.3	11
60	Direct alkylthio-functionalization of unsubstituted perylenediimides. Organic and Biomolecular Chemistry, 2016, 14, 9375-9383.	2.8	10
61	Easy and mild fluoride-mediated direct mono- and dialkoxylation of perylenediimides. Dyes and Pigments, 2016, 127, 9-17.	3.7	10
62	Purcell-enhancement of the radiative PL decay in perylenediimides by coupling with silver nanoparticles into waveguide modes. Applied Physics Letters, 2017, 111, .	3.3	9
63	Directly Linked Zinc Phthalocyanineâ€“Perylenediimide Dyads and a Triad for Ultrafast Charge Separation. Chemistry - A European Journal, 2019, 25, 10123-10132.	3.3	9
64	Oligo(ethylene oxide) chains in fluorene bridge units of perylenediimide dimers as an efficient strategy for improving the photovoltaic performance in organic solar cells. Dyes and Pigments, 2019, 161, 188-196.	3.7	9
65	Silicaâ€Supported Phosphineâ€“Gold Complexes as an Efficient Catalytic System for a Dearomative Spirocyclization. Chemistry - A European Journal, 2021, 27, 427-433.	3.3	9
66	Synthesis of bay-triaminosubstituted perylenediimides. Organic Chemistry Frontiers, 2018, 5, 1830-1834.	4.5	8
67	Diphenylphenoxy-Thiophene-PDI Dimers as Acceptors for OPV Applications with Open Circuit Voltage Approaching 1 Volt. Nanomaterials, 2018, 8, 211.	4.1	8
68	Direct amination and N-heteroarylation of perylenediimides. Organic Chemistry Frontiers, 2019, 6, 2488-2499.	4.5	8
69	Altering singlet fission pathways in perylene-dimers; perylene-diimide <i>versus</i> perylene-monoimide. Nanoscale, 2022, 14, 5194-5203.	5.6	8
70	Near perfect head-to-head selectivity on the supramolecular photocyclodimerisation of 2-anthracenecarboxylate with self-organised gemini surfactant bilayers. Chemical Communications, 2020, 56, 10058-10061.	4.1	7
71	Effect of Substituents at Imide Positions on the Laser Performance of 1,7-Bay-Substituted Perylenediimide Dyes. Journal of Physical Chemistry C, 2021, 125, 12277-12288.	3.1	7
72	Slow kinetic evolution of nanohelices based on gemini surfactant self-assemblies with various enantiomeric excess; chiral segregation towards a racemic mixture. Materials Chemistry Frontiers, 2021, 5, 3021-3028.	5.9	6

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73	Chirality induction to achiral molecules by silicaâ€coated chiral molecular assemblies. Chirality, 2021, 33, 494-505.	2.6	6
74	Lanthanide ion-doped silica nanohelix: a helical inorganic network acts as a chiral source for metal ions. Chemical Communications, 2021, 57, 4392-4395.	4.1	6
75	Dielsâ€“Alder reaction on perylenediimides: synthesis and theoretical study of core-expanded diimides. Organic Chemistry Frontiers, 2019, 6, 2860-2871.	4.5	5
76	Distanceâ€Dependent Electron Transfer Kinetics in Axially Connected Silicon Phthalocyanineâ€Fullerene Conjugates. ChemPhysChem, 2020, 21, 2254-2262.	2.1	5
77	Excited State Charge Separation in an Azobenzeneâ€Bridged Perylenediimide Dimer â€“ Effect of Photochemical Transâ€Cis Isomerization. Chemistry - A European Journal, 2021, 27, 14996-15005.	3.3	5
78	Fabrication of Fluorescent One-dimensional-nanocomposites through One-pot Self-assembling Polymerization on Nano-helical Silica. Chemistry Letters, 2019, 48, 1088-1091.	1.3	4
79	Occurrence of excited state charge separation in a N-doped grapheneâ€“perylenediimide hybrid formed <i>via</i> â€˜clickâ€™ chemistry. Nanoscale Advances, 2019, 1, 4009-4015.	4.6	4
80	Emissionâ€Color Control in Polymer Films by Memorized Fluorescence Solvatochromism in a New Class of Totally Organic Fluorescent Nanogel Particles. Chemistry - A European Journal, 2019, 25, 10141-10148.	3.3	4
81	A zinc phthalocyanineâ€“benzoperylenetriimide conjugate for solvent dependent ultrafast energy vs. electron transfer. Chemical Communications, 2019, 55, 14946-14949.	4.1	4
82	Substituents interplay in piperidinyl-perylenediimide as dopant-free hole-selective layer for perovskite solar cells fabrication. Emergent Materials, 2022, 5, 977-985.	5.7	4
83	Identification of the loss mechanisms in TiO2 and ZnO solar cells based on blue, piperidinyl-substituted, mono-anhydride perylene dyes. Electrochimica Acta, 2020, 355, 136638.	5.2	3
84	Quadrupolar Ultrafast Charge Transfer in Diaminoazobenzeneâ€Bridged Perylenediimide Triads. Chemistry - A European Journal, 2022, 28, .	3.3	2
85	Unveiling the Photoinduced Electronâ€Donating Character of MoS 2 in Covalently Linked Hybrids Featuring Perylenediimide. Angewandte Chemie, 2021, 133, 9202-9208.	2.0	1
86	Influence of substituents of Perylenebisimides on the surface energy and wettability: A systematic structureâ€“property relationship analysis. Dyes and Pigments, 2022, 199, 110044.	3.7	1
87	Distanceâ€Dependent Electron Transfer Kinetics in Axially Connected Silicon Phthalocyanineâ€Fullerene Conjugates. ChemPhysChem, 2020, 21, 2232-2232.	2.1	0